What is claimed is:

1. In a network computing system, an apparatus for providing direct processing access between (a) application servers and application users comprising:

a main storage capable of establishing processing communication with an application server;

said main storage containing a queuing mechanism for retrieval and storage of incoming and outgoing data without causing interrupts in any running programs;

an interface element capable of establishing processing communication with at least one application user;

an interrogator for examining multiple queues in said queue mechanism to transfer appropriate requests, responses and data between said application server(s) and said application user(s).

2. The apparatus of claim 1, wherein said Interface Element further comprises of a Connector Interface Element and a Network Interface Element.

3. The apparatus of claim 2, wherein said Connector Interface Element is in processing communication with said main storage via a Self-Timed Interface or an STI bus.

4. The apparatus of claim 2, wherein said Connector Interface Element comprises a plurality of processors.

5. The apparatus of claim 4, wherein one of said plurality of processors is used for redundancy purposes.

6. The apparatus of claim 2, wherein said main storage can be in processing communication with a plurality of network elements and servers.

7. The apparatus of claim 6, wherein said plurality of networks comprise at least a web-server.

8. The apparatus of claim 7, wherein said web-server is a TCP/IP oriented server.

9. The apparatus of claim 2, wherein said Connector and said Network Interface Elements are in processing communication with one another via a Peripheral Controller Interface bus or a PCI bus.

10. The apparatus of claim 2, wherein said Network Interface Element further comprises an I/O device adapters, at least one more processor and a local storage area.

11. The apparatus of claim 10, wherein said Network Interface Element is capable of connecting to one or more individual application users.

12. The apparatus of claim 1, wherein said Interface Element performs only a few special functions that replace multitudes of channel functions normally performed by said computing network environment.

1   13. The apparatus of claim 1, wherein said Interface
2   Element performs special functions that replace many functions
3   normally performed by one or more control units.

1   14. In a network computing system having a main storage
2   capable of connecting to at least one application server and an
3   interface element with at least one adapter capable of
4   establishing processing communication with at least one
5   application user(s), an apparatus for providing direct processing
6   access between said main storage and said adapter comprising:

7   data receivers set up in said application server for
8   processing data;

9   a plurality of queues located in main storage for
10 providing continuous running of programs without interruptions;

11   an updator for changing the status of said network
12 computing system every time new data is received, deleted or
13 modified;

14   an interrogator for interrogating multiple existing
15 queues in said main storage simultaneously to process any
16 received data or requests;

17   a determinator for interrogation and routing of data to
18 appropriate application user to which said data has to be
19 forwarded to.

1   15. The apparatus of claim 14, wherein said Interface
2   Element further comprises of a Connector Interface Element and a
3   Network Interface Element.

1   16. The apparatus of claim 15, wherein said Connector

2   Interface Element is in processing communication with said main

3   storage via a Self-Timed Interface or an STI bus.

1   17. The apparatus of claim 15, wherein said main storage can

2   be in processing communication with a plurality of network

3   elements and servers.

1   18. The apparatus of claim 15, wherein said Connector and

2   said Network Interface Elements are in processing communication

3   with one another via a Peripheral Controller Interface bus or a

4   PCI bus.

1   19. The apparatus of claim 15, wherein said Network

2   Interface Element further comprises an I/O device adapters, at

3   least one more processor and a local storage area.

1   20. The apparatus of claim 19, wherein said Network

2   Interface Element is capable of connecting to one or more

3   individual application users.

1   21. The apparatus of claim 15, wherein said Connector

2   Interface Element is in processing communication with said main

3   storage via a direct access memory I/O device.

1   22. The apparatus of claim 15, wherein said Connector and

       said Network Interface Elements are in processing communication

2   with one another via a direct access memory I/O device.